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FORM PTO-1449		U.S. Department of Commerce Patent and Trademark Office		ATTY. DOCKET NO: 60.1323/1324 CIP	SERIAL NO.: 10/016,246
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				APPLICANT: KLEINBERG et al.	EXAMINER:
				FILING DATE: October 30, 2001	GROUP:

U.S. PATENT DOCUMENTS

Exam Init.		Document Number	Date	Name	Class	Sub-class	Filing date if appropriate
✓		4,860,581	08/29/89	Zimmerman et al.	73	155	09/23/88
		4,936,139	06/26/90	Zimmerman et al.	73	155	07/10/89
		5,023,551	06/11/91	Kleinberg et al.	324	303	12/19/89
		5,306,640	04/26/94	Vinegar et al.	436	29	10/28/87
		5,796,252	08/18/98	Kleinberg et al.	324	303	01/15/97
		5,939,717	08/17/99	Mulllins	250	255	01/29/98
✓		6,274,865	08/14/01	Schroer et al.	250	269.1	02/23/99

FOREIGN PATENT DOCUMENTS

Exam Init.		Document Number	Date	Country	Class	Sub-class	Translation Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

✓	1	J. W. Amyx et al. Petroleum Reservoir Engineering. McGraw-Hill (1960), pg. 458.
✓	2	E. R. Andrew. Nuclear Magnetic Resonance. Cambridge University Press (1955), pg. 127.
✓	3	R. Badry et al. "Downhole Optical Analysis of Formation Fluids". Oilfield Review (January 1994), pp. 21-28.
✓	4	Bloembergen et al. "Relaxation Effects in Nuclear Magnetic Resonance Absorption". Physical Review (1948), Vol. 73, No. 7, pp. 679-712.
✓	5	R. E. Botto. "Fossil Fuels". Encyclopedia of Nuclear Magnetic Resonance (1996), pp. 1-17.
✓	6	CRC Handbook of Chemistry and Physics (63rd Edition). CRC Press, 1982-1983, pp. B-73 – B-165.
Not checked	7	P. T. Callaghan. <u>Principles of Nuclear Magnetic Resonance Microscopy</u> . Clarendon Press (1991).
✓	8	A. Caprihan et al. "Flow Measurements by NMR". Physics Reports 198 (1990), pp. 195-235.
✓	9	A. G. Collins. "Properties of Produced Waters". Petroleum Engineering Handbook, H. B. Bradley, Ed., Chapter 24, pp. 24-1—24-23.
✓	10	J. J. Dechter. Progress in Inorganic Chemistry, Vol. 29 (1982), pp. 285-385
✓	11	J. R. Dyer. Applications of Absorption Spectroscopy of Organic Compounds. Prentice-Hall (1965), pp. 84-85.
✓	12	T. C. Farrar et al. Pulse and Fourier Transform NMR. Academic Press (1971)



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14	<i>not considered</i> E. Fukushima et al. Experimental Pulse NMR. A Nuts and Bolts Approach. Addison Wesley (1981).
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16	K. Halbach. "Design of Permanent Multipole Magnets with Oriented Rare Earth Cobalt Material". Nuclear Instruments and Methods 169 (1980), pp. 1-10.
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18	J. P. Horkowitz et al. "Residual Oil Saturation Measurements in Carbonates with Pulsed NMR Logs". SPWLA 36th Annual Logging Symposium (June 1995), Paper Q, pp. 1-12.
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24	L. Petrakis et al. "The Utilization of Nuclear Magnetic Resonance Spectroscopy for Petroleum, Coal, Oil Shale, Petrochemicals, and Polymers". Phenomenology, Paradigms of Applications, and Instrumentation" Applied Spectroscopy Reviews, 15(2) (1972), pp. 195-260.
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27	J. M. Singer et al. "Fast NMR Logging for Bound Fluid and Permeability". SPWLA 38th Annual Logging Symposium (June 1997), Paper YY, pp. 1-13.
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29	B. P. Tissot et al. "Petroleum Formation and Occurrence". Springer-Verlag (1978), Fig. IV.1.20.
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31	H. J. Vinegar et al. "Whole-Core Analysis by ¹³ C NMR", SPE Formation Evaluation 6, (June 1991), pp. 183-189.

DATE CONSIDERED

2/21/03

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant